

1 GCGGCCGCGAATTCGGCACCAGGGGCGCTCTCTCCCGGTGTGGGTACTGCTGTCTGTGGT 60
 61 GTGGCTGTGGGACCCGTGAGCAAGCAGCGACGCCAGCGGCGGAGAACCGACGAAAGGTGT 120
 121 CACCACAGTGATGGCAGTGGAGGACAGCACGCTGCAAGTAGTGGTACGGGTGCGGCCCCC 180
 MetAlaValGluAspSerThrLeuGlnValValValArgValArgProPr
 181 CACCCCTCGGGAGCTGGACAGTCAGCGGCGGCCAGTGGTTCAGGTGGTGGACGAGCGGGT 240
 oThrProArgGluLeuAspSerGlnArgArgProValValGlnValValAspGluArgVa
 241 GCTGGTGTTTAACCCTGAGGAGCCCGATGGAGGGTTCCTGGCCTGAAATGGGGTGGCAC 300
 lLeuValPheAsnProGluGluProAspGlyGlyPheProGlyLeuLysTrpGlyGlyTh
 301 CCATGATGGCCCCAAGAAGAAGGGCAAAGACCTGACGTTTGTCTTTGACCGGGTCTTTGG 360
 rHisAspGlyProLysLysLysGlyLysAspLeuThrPheValPheAspArgValPheGl
 361 CGAGGCGGCCACCCAACAGGACGTGTTCCAGCACACCACGCACAGCGTCCTGGACAGCTT 420
 yGluAlaAlaThrGlnGlnAspValPheGlnHisThrThrHisSerValLeuAspSerPh
 421 CCTCCAGGGCTACAACCTGCTCAGTGTTCCTACGGGGCCACCGGGGCTGGGAAGACACA 480
 eLeuGlnGlyTyrAsnCysSerValPheAlaTyrGlyAlaThrGlyAlaGlyLysThrHi
 481 CACCATGCTGGGAAGGGAGGGGGACCCCGGCATCATGTACCTGACCACCGTGGAAGTGT 520
 sThrMetLeuGlyArgGluGlyAspProGlyIleMetTyrLeuThrThrValGluLeuTy
 541 CAGGCGCCTGGAGGCCCGCCAGCAGGAGAAGCACTTCGAGGTGCTCATCAGCTACCAGGA 600
 rArgArgLeuGluAlaArgGlnGlnGluLysHisPheGluValLeuIleSerTyrGlnGl

FIG. 1A

601 GGTGTATAATGAACAGATCCATGACCTCCTGGAGCCCAAGGGGCCCTTGCCATCCGCGA 660
 -----+-----+-----+-----+-----+-----+-----+
 uValTyrAsnGluGlnIleHisAspLeuLeuGluProLysGlyProLeuAlaIleArgGlu

661 GGACCCCGACAAGGGGGTGGTGGTGAAGGACTTTCTTTCCACCAGCCAGCCTCAGCCGA 720
 -----+-----+-----+-----+-----+-----+-----+
 uAspProAspLysGlyValValValGlnGlyLeuSerPheHisGlnProAlaSerAlaGlu

721 GCAGCTGCTGGAGATACTGACCAGGGGGAACCGTAACCGCACGCAGCACCCCACTGATGC 780
 -----+-----+-----+-----+-----+-----+-----+
 uGlnLeuLeuGluIleLeuThrArgGlyAsnArgAsnArgThrGlnHisProThrAspAla

781 CAACGCGACTTCCTCCCGCTCCCATGCCATCTTCCAGATCTTTGTGAAGCAGCAGGACCG 840
 -----+-----+-----+-----+-----+-----+-----+
 aAsnAlaThrSerSerArgSerHisAlaIlePheGlnIlePheValLysGlnGlnAspArg

841 GGTTCAGGACTGACCCAGGCTGTCCAGGTGGCCAAGATGAGCCTGATTGACCTGGCTGG 900
 -----+-----+-----+-----+-----+-----+-----+
 gValProGlyLeuThrGlnAlaValGlnValAlaLysMetSerLeuIleAspLeuAlaGlu

901 CTCAGAGCGGGCATCCAGCACCCATGCGAAGGGGGAGCGGCTGCGGGAGGGGGCCAACAT 960
 -----+-----+-----+-----+-----+-----+-----+
 ySerGluArgAlaSerSerThrHisAlaLysGlyGluArgLeuArgGluGlyAlaAsnIle

961 CAACCGCTCTCTGCTGGCGCTCATCAACGTCCTCAATGCCTTGGCCGATGCAAAGGGCCG 1020
 -----+-----+-----+-----+-----+-----+-----+
 eAsnArgSerLeuLeuAlaLeuIleAsnValLeuAsnAlaLeuAlaAspAlaLysGlyArg

1021 CAAGACCCATGTGCCCTACCGGGACAGCAAACCTGACCCGCCTGCTCAAAGACTCCCTCGG 1080
 -----+-----+-----+-----+-----+-----+-----+
 gLysThrHisValProTyrArgAspSerLysLeuThrArgLeuLeuLysAspSerLeuGlu

1081 GGGCAACTGCCGCACAGTGATGATCGCTGCCATCAGCCCCTCCAGCCTGACCTACGAGGA 1120
 -----+-----+-----+-----+-----+-----+-----+
 yGlyAsnCysArgThrValMetIleAlaAlaIleSerProSerSerLeuThrTyrGluAsp

1141 CACGTACAACACCCTCAAATATGCCGACCGGG**GCCA**AGGAGATCAGGCTCTCGCTGAAGAG 1200
 -----+-----+-----+-----+-----+-----+-----+
 pThrTyrAsnThrLeuLysTyrAlaAspArg**Ala**LysGluIleArgLeuSerLeuLysSer

1201 CAATGTGACCAGCCTGGACTGTCACATCAGCCAGTATGCTACCATCTGCCAACAGCTCCA 1260
 -----+-----+-----+-----+-----+-----+-----+
 rAsnValThrSerLeuAspCysHisIleSerGlnTyrAlaThrIleCysGlnGlnLeuGlu

FIG. 1B

1261 GGCTGAGGTAGCCGCTCTGAGGAAGAAGCTCCAAGTGTATGAGGGGGGAGGCCAGCCCCC 1320
 -----+-----+-----+-----+-----+-----+-----+ 1320
 nAlaGluValAlaAlaLeuArgLysLysLeuGlnValTyrGluGlyGlyGlyGlnProPr

1321 ACCACAGGACCTCCCAGGATCTCCCAAGTCGGGACCACCACCAGAACACCTTCCCAGCTC 1380
 -----+-----+-----+-----+-----+-----+-----+ 1380
 oProGlnAspLeuProGlySerProLysSerGlyProProProGluHisLeuProSerSe

1381 CCCCTTGCCACCCACCCTCCCAGCCAGCCCTGCACCCCAGAGCTCCCTGCAGGGCCTAG 1440
 -----+-----+-----+-----+-----+-----+-----+ 1440
 rProLeuProProHisProProSerGlnProCysThrProGluLeuProAlaGlyProAr

1441 AGCCCTTCAAGAGGAGAGTCTGGGGATGGAGGCCAGGTGGAGAGGGCCATGGAAGGGAA 1500
 -----+-----+-----+-----+-----+-----+-----+ 1500
 gAlaLeuGlnGluGluSerLeuGlyMetGluAlaGlnValGluArgAlaMetGluGlyAs

1501 CTCTTCAGACCAGGAGCAGTCCCCAGAGGATGAGGATGAAGGCCAGCTGAGGAGGTTCC 1560
 -----+-----+-----+-----+-----+-----+-----+ 1560
 nSerSerAspGlnGluGlnSerProGluAspGluAspGluGlyProAlaGluGluValPr

1561 AACCCAGATGCCAGAGCAGAACCCACACATGCACTGCCAGAGTCCCCTCGCCTGACCCT 1620
 -----+-----+-----+-----+-----+-----+-----+ 1620
 oThrGlnMetProGluGlnAsnProThrHisAlaLeuProGluSerProArgLeuThrLe

1621 GCAGCCCAAGCCAGTCGTGGGCCACTTCTCAGCACGGGAAGTGGATGGGGACCGTTCTAA 1680
 -----+-----+-----+-----+-----+-----+-----+ 1680
 uGlnProLysProValValGlyHisPheSerAlaArgGluLeuAspGlyAspArgSerLy

1681 GCAGTTGGCCCTAAAGGTGCTGTGCGTTGCCAGCGGCAGTACTCCCTGCTCCAAGCAGC 1740
 -----+-----+-----+-----+-----+-----+-----+ 1740
 sGlnLeuAlaLeuLysValLeuCysValAlaGlnArgGlnTyrSerLeuLeuGlnAlaAl

1741 CAACCTCCTGACGCCCCGACATGATCACAGAGTTTGAGACCCTACAGCAGCTGGTGCAAGA 1800
 -----+-----+-----+-----+-----+-----+-----+ 1800
 aAsnLeuLeuThrProAspMetIleThrGluPheGluThrLeuGlnGlnLeuValGlnGl

1801 GGAAAAAATTGAGCCTGGGGCAGAGGCCTTGAGGACTTCAGGCCTGGCCAGGGGGGCACC 1860
 -----+-----+-----+-----+-----+-----+-----+ 1860
 uGluLysIleGluProGlyAlaGluAlaLeuArgThrSerGlyLeuAlaArgGlyAlaPr

1861 TCTGGCTCAGGAGCTGTGTTTCAGAGTCAATCCCTGTGCCGTCTCCTCTCTGCCAGAGCC 1920
 -----+-----+-----+-----+-----+-----+-----+ 1920
 oLeuAlaGlnGluLeuCysSerGluSerIleProValProSerProLeuCysProGluPr

FIG. 1C

1921 TCCAGGATACACTGGCCCTGTGACCCGACTATGGCGAGGCGACTGAGTGGCCCCCTGCA 1980
 -----+-----+-----+-----+-----+-----+-----+
 oProGlyTyrThrGlyProValThrArgThrMetAlaArgArgLeuSerGlyProLeuHi

 1981 CACCCTGGGAATCCCGCCTGGACCCAACCTGCACCCAGCCCAGGGGTCCCGATGGCCCAT 2040
 -----+-----+-----+-----+-----+-----+-----+
 sThrLeuGlyIleProProGlyProAsnCysThrProAlaGlnGlySerArgTrpProMe

 2041 GGAGAAGAAGAGGAGGAGACCAAGCGCCTTGGAGGCAGACAGTCCCATGGCCTCAAAGCG 2100
 -----+-----+-----+-----+-----+-----+-----+
 tGluLysLysArgArgArgProSerAlaLeuGluAlaAspSerProMetAlaSerLysAr

 2101 GGGCACCAAGCGCCAGCGCCAGTCCTTCCTGCCCTGCCTAAGGAGAGGGTCTCTGCCTGA 2160
 -----+-----+-----+-----+-----+-----+-----+
 gGlyThrLysArgGlnArgGlnSerPheLeuProCysLeuArgArgGlySerLeuProAs

 2161 CACCCAACCTTCACAGGGGCCCCAGCACCCCCAAAGGAGAAAGGGCCTCCTCCCCCTGCCA 2220
 -----+-----+-----+-----+-----+-----+-----+
 pThrGlnProSerGlnGlyProSerThrProLysGlyGluArgAlaSerSerProCysHi

 2221 TTCCCCTCGCGTTTGGCCAGCCACAGTCATCAAAAGCCGGGTGCCCTGGGCCCTTCCGC 2280
 -----+-----+-----+-----+-----+-----+-----+
 sSerProArgValCysProAlaThrValIleLysSerArgValProLeuGlyProSerAl

 2281 CATGCAGAACTGCTCCACCCCGCTGGCTCTGCCCACTCGAGACCTCAATGCCACCTTTGA 2340
 -----+-----+-----+-----+-----+-----+-----+
 aMetGlnAsnCysSerThrProLeuAlaLeuProThrArgAspLeuAsnAlaThrPheAs

 2341 TCTCTCTGAGGAGCCTCCCTCAAAGCCCAGTTTCCATGAATGCATTGGCTGGGACAAAAT 2400
 -----+-----+-----+-----+-----+-----+-----+
 pLeuSerGluGluProProSerLysProSerPheHisGluCysIleGlyTrpAspLysIl

 2401 ACCCCAGGAGCTGAGCAGGCTGGACCAGCCCTTCATCCCCAGGGCACCTGTGCCCTGTT 2460
 -----+-----+-----+-----+-----+-----+-----+
 eProGlnGluLeuSerArgLeuAspGlnProPheIleProArgAlaProValProLeuPh

 2461 CACCATGAAGGGCCCCAAGCCAACATCTTCCCTCCCTGGGACCTCTGCCTGCAAGAAGAA 2520
 -----+-----+-----+-----+-----+-----+-----+
 eThrMetLysGlyProLysProThrSerSerLeuProGlyThrSerAlaCysLysLysLy

 2521 GCGCGTTGCGAGTTCCTCAGTCTCCCATGGCCGCGCCGCATCGCCCGCCTCCCCAGCAG 2580
 -----+-----+-----+-----+-----+-----+-----+
 sArgValAlaSerSerSerValSerHisGlyArgSerArgIleAlaArgLeuProSerSe

FIG. 1D

2581 CACTTTGAAGAGGCCAGCTGGGCCCCTTGTACTCCCAGAGCTGCCCTTGAGTCCCCTGTG 2640
 -----+-----+-----+-----+-----+-----+-----+
 rThrLeuLysArgProAlaGlyProLeuValLeuProGluLeuProLeuSerProLeuCy

 2641 CCCTAGCAACCGGAGGAATGGAAAGGACCTCATCAGGGTGGGGAGAGCGCTCTCAGCAGG 2700
 -----+-----+-----+-----+-----+-----+-----+
 sProSerAsnArgArgAsnGlyLysAspLeuIleArgValGlyArgAlaLeuSerAlaGl

 2701 GAACGGCGTCACCAAGGTGTCCTGACCGCCAGAATGTCCTGACCACCAAGGTGTCCTAAC 2760
 -----+-----+-----+-----+-----+-----+-----+
 yAsnGlyValThrLysValSer

 2761 CTACCGGCCCCTCTGCTGGATACCCCTCTTGACCTGTAGCCACCTGCACCAGGAGCTGG 2820
 -----+-----+-----+-----+-----+-----+-----+

 2821 ACCTGCCTTCCTTACCTGGGAGCAATTAGTGCCAACACACCTTTGCTGTATTAACATCCC 2880
 -----+-----+-----+-----+-----+-----+-----+

 2881 TCCCCAGACATCCATCCTGCTACTCACCCCTCTGTTAATCTCCTGTTACACTCAGCTTCTT 2940
 -----+-----+-----+-----+-----+-----+-----+

 2941 GGCATGTACATATTCATTTGTGAGTGTTAATGTGCTGCTGTTTTTTGTTTTTTGGTGGTT 3000
 -----+-----+-----+-----+-----+-----+-----+

 3001 TTTGTTTTTTGTTTTTTTGTGTTTTGAGATGGAGTCTTACTCTGTGCGCCAGGCTGGAGTG 3060
 -----+-----+-----+-----+-----+-----+-----+

 3061 CAGTGGTACGATCTTGGCTCACTGCAACCTCCGCCTCCTGGGTTCAAGTAATTCTCCTGC 3120
 -----+-----+-----+-----+-----+-----+-----+

 3121 CTCAGCTTTCCAAGTAGCTGGGATTACAGGCACCCATCACCACACCCAGCTAATTTTCGT 3180
 -----+-----+-----+-----+-----+-----+-----+

 3181 CTTTTTAATAGAGAGGGGGTTTTTCCATGTTGGCCAGGCTGGTCTTGAACCTCCTGACCTC 3240
 -----+-----+-----+-----+-----+-----+-----+

 3241 AGGTGATCCGCCTGCCTCAGCTTCCCAAAGTGCTGAGATTACAGGCATGAGCTACCACGC 3300
 -----+-----+-----+-----+-----+-----+-----+

 3301 CTGGCCCGTGTTGCTGTTTTAAAGGTGCTGCCATGTTCCCCCATCTTTTTTTTTTTTGGAG 3360
 -----+-----+-----+-----+-----+-----+-----+

FIG. 1E

3361 ATGGAGTCTCGCTCTGTCGCCCAGGCTGGAGTGCAGTGGTGGCGATCTTGGCTCACTGCA 3420
 -----+-----+-----+-----+-----+-----+-----+
 3421 AGCTCCGCCTCCCAGGTTACACCATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGACTA 3480
 -----+-----+-----+-----+-----+-----+-----+
 3481 CAGGCGCCCACCACCACGCCCGGCTAATTTTTTGTATTTTGTAGTAGAGATGGGGTTTCAC 3540
 -----+-----+-----+-----+-----+-----+-----+
 3541 CGTGTTAGCCAGGCTGGTCTCGATCTGACCTCATGATCCACCCGCCTCGGCCTCCCAAAG 3600
 -----+-----+-----+-----+-----+-----+-----+
 3601 TGCTGGGATTACAGGCGTGAGCCACTGCGCCCGGCCTCCCCTCTCATTTATGATGCCCTC 3660
 -----+-----+-----+-----+-----+-----+-----+
 3661 TGTGCAGGCAGACGGCTCTTGGGCTCTTTTCCCCACCTGTCTCTAACACAGGCCCCACGG 3720
 -----+-----+-----+-----+-----+-----+-----+
 3721 TGATGGCCACAGGCAGTAGAGGAGGAATGAGGATGGGTGGGGAGCGGGGAGTCGCGGCT 3780
 -----+-----+-----+-----+-----+-----+-----+
 3781 TGGCTCTTCCTGGTTTCTGAGAGGGACATCTTCATCCCTACTCCCCTTGGTCCCCAACCA 3840
 -----+-----+-----+-----+-----+-----+-----+
 3841 CAGTCCTGGTGAAGATGTGGATGATAATGGTGCCTTGATTTCCAAATGAAGACAGCTTTA 3900
 -----+-----+-----+-----+-----+-----+-----+
 3901 TTGCTTAACTCTATTGTACATAGGATACACGTTCAAGTGTAAAATAAAGTGTAAAGGGGAA 3960
 -----+-----+-----+-----+-----+-----+-----+
 3961 TTCAGGCTTAATGCTGCACCTAGATATAAATGCTAATGATACTTGGGTTTATAGCCTTCT 4020
 -----+-----+-----+-----+-----+-----+-----+
 4021 GATCCTTTATTTCTGCATATATATATAGATATATACATATATTTTGGTATAACAATAAA 4080
 -----+-----+-----+-----+-----+-----+-----+
 4081 CCGTCTCCATCCTTGGGAAAAAAAAAAAA 4108
 -----+-----+-----+-----+-----+-----+-----+

FIG. 1F



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1  GACAGCACGC TGCAAGTAGT GGTACGGGTG CGGCCCCCA CCCCTCGGGA GCTGGACAGT
61 CAGCGGCGGC CAGTGGTTCA GGTGGTGGAC GAGCGGGTGC TGGTGTTTAA CCCTGAGGAG
121 CCCGATGGAG GGTTCCTGG CCTGAAATGG GGTGGCACCC ATGATGGCCC CAAGAAGAAG
181 GGCAAAGACC TGACGTTTGT CTTTGACCGG GTCTTTGGCG AGGCGGCCAC CCAACAGGAC
241 GTGTTCCAGC ACACCACGCA CAGCGTCCTG GACAGCTTCC TCCAGGGCTA CAACTGCTCA
301 GTGTTTGCCT ACGGGGCCAC CGGGGCTGGG AAGACACACA CCATGCTGGG AAGGGAGGGG
361 GACCCCGGCA TCATGTACCT GACCACCGTG GAACTGTACA GGCGCCTGGA GGCCCGCCAG
421 CAGGAGAAGC ACTTCGAGGT GCTCATCAGC TACCAGGAGG TGTATAATGA ACAGATCCAT
481 GACCTCCTGG AGCCCAAGGG GCCCCTTGCC ATCCGCGAGG ACCCCGACAA GGGGGTGGTG
541 GTGCAAGGAC TTTCTTTCCA CCAGCCAGCC TCAGCCGAGC AGCTGCTGGA GATACTGACC
601 AGGGGGAACC GTAACCGCAC GCAGCACCCC ACTGATGCCA ACGCGACTTC CTCCCGCTCC
661 CATGCCATCT TCCAGATCTT TGTGAAGCAG CAGGACCGGG TTCCAGGACT GACCCAGGCT
721 GTCCAGGTGG CCAAGATGAG CCTGATTGAC CTGGCTGGCT CAGAGCGGGC ATCCAGCACC
781 CATGCGAAGG GGGAGCGGCT GCGGGAGGGG GCCAACATCA ACCGCTCTCT GCTGGCGCTC
841 ATCAACGTCC TCAATGCCTT GGCCGATGCA AAGGGCCGCA AGACCCATGT GCCCTACCGG
901 GACAGCAAAC TGACCCGCCT GCTCAAAGAC TCCCTCGGGG GCAACTGCCG CACAGTGATG
961 ATCGCTGCCA TCAGCCCCTC CAGCCTGACC TACGAGGACA CGTACAACAC CCTC

```

FIG. 2

```

1  DSTLQVVVRV RPPTPRELDS QRRPVVQVVD ERVLVFNPEE PDGGFPGLKW GGTHDGPKKK
61 GKDLTFVFDR VFGEAATQQD VFQHTTHSVL DSFLQGYNCS VFAYGATGAG KTHTMLGREG
121 DPGIMYLTTV ELYRRLEARQ QEKHFEVLIS YQEVYNEQIH DLLEPKGPLA IREDPDKGVV
181 VQGLSFHQPA SAEQLLEILT RGNRNRTQHP TDANATSSRS HAIFQIFVKQ QDRVPGLTQA
241 VQVAKMSLID LAGSERASST HAKGERLREG ANINRSLAL INVLNALADA KGRKTHVPYR
301 DSKLTRLLKD SLGGNCRTVM IAAISPSSLT YEDTYNTL

```

FIG. 3



MAVEDSTLQVVVRVPPTPRELDSQRRPVVQVVDERVLVFNPEEPDGGFPGLKWGGT
 HDGPKKKGKDLTFVFDRVFGEAATQQDVFQHTTHSVLDSFLQGYNCVVFAYGATGAG
 KTHTMLGREGDPGIMYLTVELYRRLEARQQEKHFVLI SYQEYVNEQIHDLLEPKG
 PLAIREDPDKGVVVQGLSFHQPASAEQLLEILTRGNRNRTQHPTDANATSSRSHAI F
 QIFVKQQDRVPGLTQAVQVAKMSLIDLAGSERASSTHAKGERLREGANINRSLALI
 NVLNALADAKGRKTHVPYRDSKLTRLKDSLGGNCRTVMIAAISPSSTLYEDTYNTL
 KYADRAKEIRLKGNSKLEGKPIPNPLLGLDSTRTGHHHHHH

FIG. 4

ATGGCAGTGGAGGACAGCACGCTGCAAGTAGTGGTACGGGTGCGGCCCCCACCCT
 CGGGAGCTGGACAGTCAGCGGCGGCCAGTGGTTCAGGTGGTGGACGAGCGGGTGCTG
 GTGTTTAACCCTGAGGAGCCCGATGGAGGGTTCCTGGCCTGAAATGGGGTGGCACC
 CATGATGGCCCCAAGAAGAAGGGCAAAGACCTGACGTTTGTCTTTGACCGGGTCTTT
 GGCGAGGCGGCCACCCAACAGGACGTGTTCCAGCACACCACGCACAGCGTCCTGGAC
 AGCTTCCTCCAGGGCTACAAGTCTCAGTGTTCCTACGGGGCCACCGGGGCTGGG
 AAGACACACACCATGCTGGGAAGGGAGGGGGACCCCGGCATCATGTACCTGACCACC
 GTGGAAGTGTACAGGCGCCTGGAGGCCCGCCAGCAGGAGAAGCACTTCGAGGTGCTC
 ATCAGCTACCAGGAGGTGTATAATGAACAGATCCATGACCTCCTGGAGCCCAAGGGG
 CCCCTTGCCATCCGCGAGGACCCGACAAGGGGGTGGTGGTGCAAGGACTTTCTTTC
 CACCAGCCAGCCTCAGCCGAGCAGCTGCTGGAGATACTGACCAGGGGGAACCGTAAC
 CGCACGCAGCACCCCACTGATGCCAACGCGACTTCCTCCCGCTCCCATGCCATCTTC
 CAGATCTTTGTGAAGCAGCAGGACCGGGTTCAGGACTGACCCAGGCTGTCCAGGTG
 GCCAAGATGAGCCTGATTGACCTGGCTGGCTCAGAGCGGGCATCCAGCACCCATGCG
 AAGGGGGAGCGGCTGCGGGAGGGGGCCAACATCAACCGCTCTCTGCTGGCGCTCATC
 AACGTCTCAATGCCTTGCCGATGCAAAGGGCCGCAAGACCCATGTGCCCTACCGG
 GACAGCAAAGTACCCGCCTGCTCAAAGACTCCCTCGGGGGCAACTGCCGCACAGTG
 ATGATCGCTGCCATCAGCCCCCTCCAGCCTGACCTACGAGGACACGTACAACACCCTC
 AAATATGCCGACCGGGCCAAGGAGATCAGGCTCAAGGGCAATTCGAAGCTGAAGGT
 AAGCCTATCCCTAACCCTCTCCTCGGTCTCGATTCTACGCGTACCGGTCATCATCAC
 CATCACCATTGA

FIG. 5

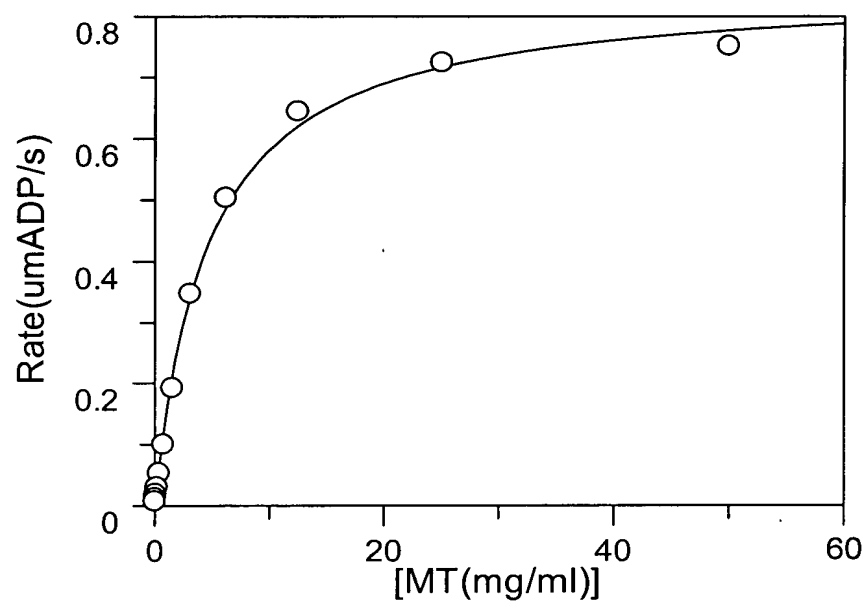


FIG. 6

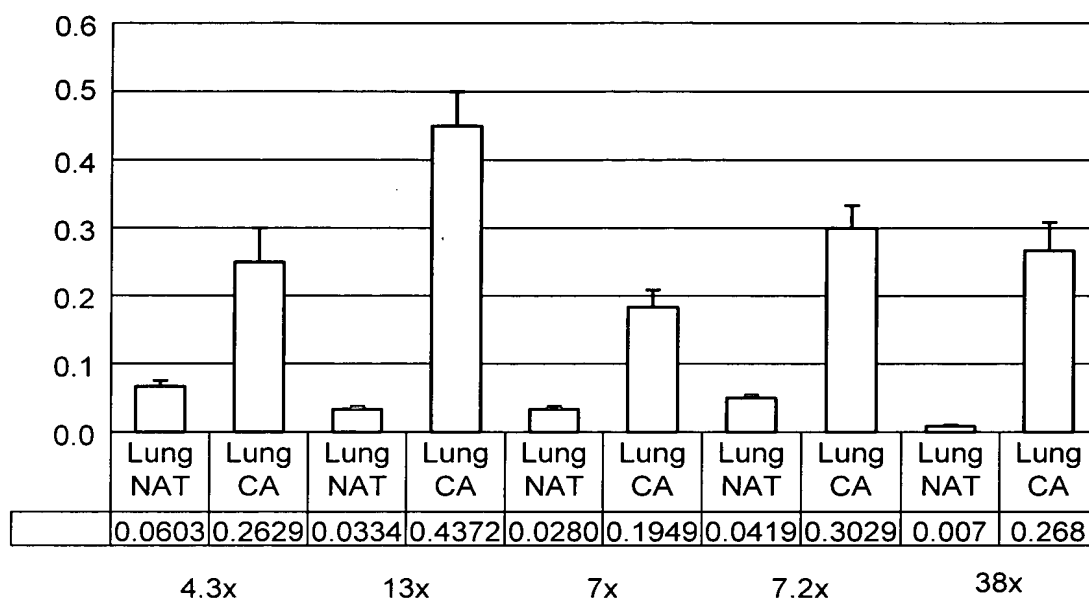


FIG. 7A

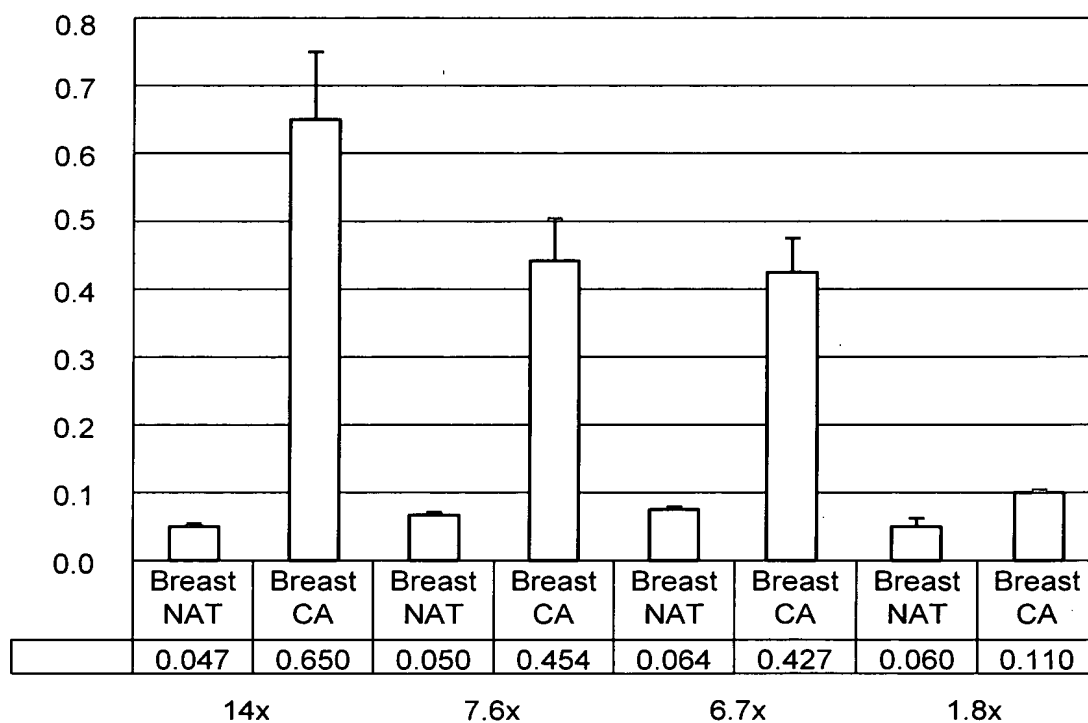


FIG. 7B

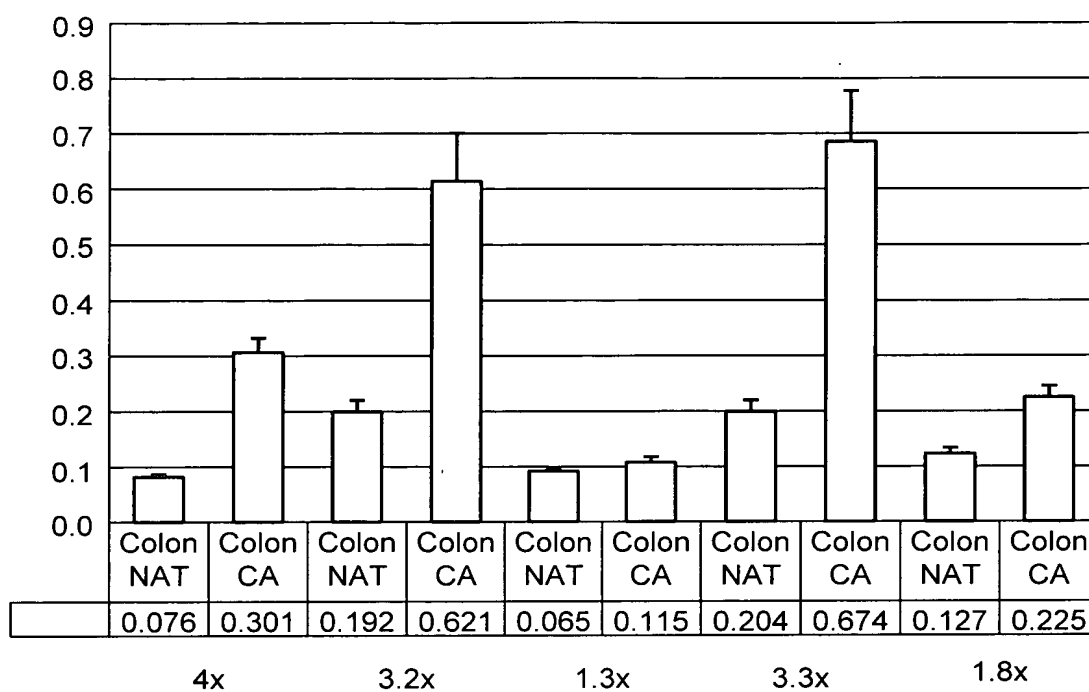


FIG. 7C

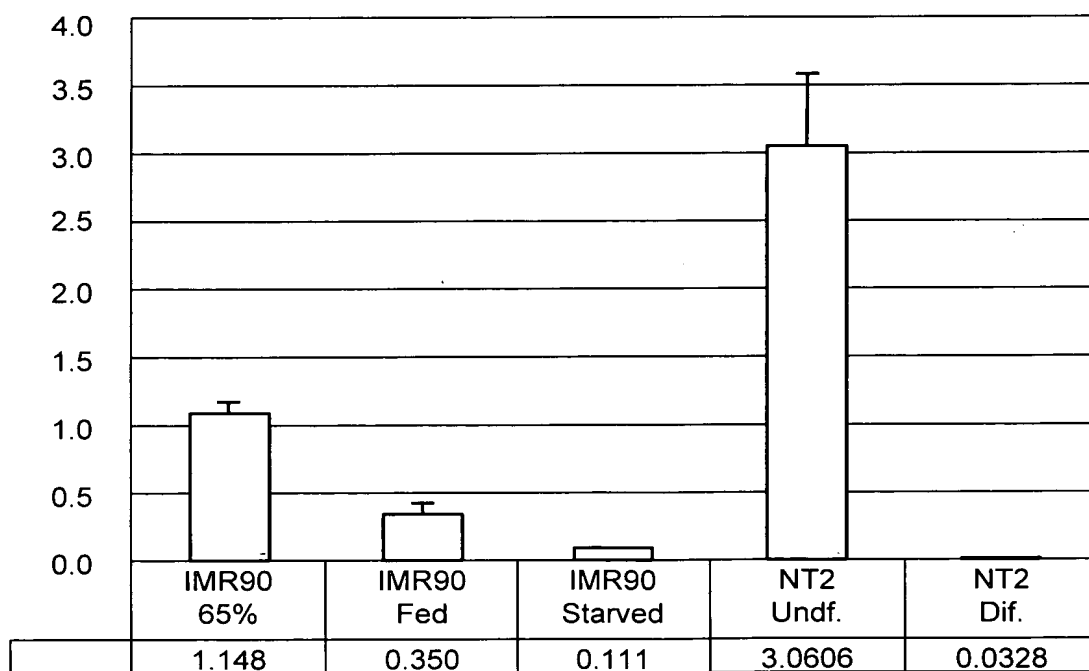


FIG. 7D